

Borough of



La
Rawtenstall.

ANNUAL REPORT

FOR 1903,

OF

⇒ *Medical Officer of Health* ⇐

AND

Nuisance Inspector,

AND REPORT ON MAIN SEWERAGE, BY

Borough Engineer

JAMES WHALLEY,

TOWN CLERK.

Borough of



Rawtenstall.

EXTRACT FROM PROCEEDINGS

*At a Meeting of the Town Council held in the Municipal
Offices, on Thursday, the Seventeenth day of March, 1904*

Present—The Right Worshipful the Mayor in the Chair.

Medical Officer of Health Deceased—Vote of Condolence.

Resolved—That this Council desires to offer to the mother and relatives of the late Medical Officer of Health (Dr. Robert Smith) its sincere sympathy and condolence in the great bereavement which they have sustained by his death, and also to express its high appreciation of the manner in which he performed his duties as Medical Officer of Health of this Borough during the three years he held that office.

Extracted from the Proceedings, 17th March, 1904.

JAMES WHALLEY,

TOWN CLERK.

Borough of



Rawtenstall.

ANNUAL REPORT

For 1903, of
Medical Officer of Health,

—AND—

Nuisance Inspector.

Medical Officer's Report.

Prefatory Note by Councillor S. Compston, Chairman
of the Health Committee.

This brief report is issued under special and melancholy circumstances. Our Medical Officer of Health, Robert Smith, M.B., C.M., and D.P.H of the University of Aberdeen, of "Gardyne," Crawshawbooth, was taken ill from ptomaine-poisoning in November last. After partial and hopeful convalescence, during which, however, he was un-

able to leave his bed, he steadily became weaker. His monthly report for November, and still more that for December, gave evidence of much debility, but his mind was quite alert, and the Sanitary Inspector (Mr. Rawling) and the Chairman of the Health Committee conferred with him occasionally. But it soon became necessary to relieve him of all care, and with the consent of the Health Committee he requested his uncle and partner, Dr. A. A. Edward, of Rawtenstall, to act for him for a little while. Dr. Smith steadily sank and peacefully died on the 19th of February, 1904, at just 31 years of age.

This Report, therefore, has been compiled chiefly by the Chairman of the Health Committee, partly from the monthly reports of the M.O.H. and partly from the writer's own knowledge, assisted, however, by Dr. Edward in the important matter of the Vital and other Statistics: books and papers being found in excellent order.

Dr. Smith was the third M.O.H. who died in the Borough's service since the Incorporation thirteen years ago, during nearly twelve of which years the undersigned has had the honour of being annually and unanimously elected Chairman of the Health Department.* He can, therefore, testify that the late Dr. Smith, who was first appointed three years ago, was as fully efficient an officer as his predecessors: indeed, he was specially adapted by nature and thoroughly competent by training for the work, and spared neither time nor pains, whether in examining erratic water

*It is remarkable that on account of unexpected death, the writer should have had to preface the late Dr. McNaught's completed Annual Report just three years ago.

supplies to farmhouses on our bleak hills, or the recesses of lodging-houses, or in controlling Small-pox outside or treating it inside the Hospital.

His clearness in recommendation, tact in dealing with people, and general kindliness, made him, together with his other qualifications, a most satisfactory public servant. Indeed, the writer believes that had Dr. Smith's life and health been continued he would have risen to some place of distinction in the country in Public Health service.

It may be added here, though not strictly within the province of this Report, that as a Lecturer to Ambulance Men or Nursing Women he was equally acceptable and successful, and that in his private medical practice he was highly esteemed by his patients.

The Borough has lost in the late Dr. Smith a worthy citizen, and the Town Council an excellent officer. The Health Department had in him a discreet and sound adviser, and between him and the Chairman there was enjoyment of mutual respect and confidence.*

The writer fully shares in the general regret at Dr. Smith's untimely decease from useful and honourable earthly work, and in sympathy with the lady, his widowed mother, to whom the young man, an only child, was devoted in all filial affection.

S. COMPSTON,

March 15th, 1904. Chairman of the Health Committee.

* In a communication Dr. Edward says: "He always spoke in the warmest terms of the manner in which the Health Committee treated him, and especially of his relationship with you as Chairman."

HEALTH DEPARTMENT,
RAWTENSTALL,

*To the Members of the Town Council of the
Borough of Rawtenstall.*

GENTLEMEN,

The area of the Borough is 9,528 acres, and the population is estimated to be 31,250 (the census of 1901 giving 31,052).

The physical character of the Borough, as pointed out last year, renders the sanitary work more difficult than it would be were the population less scattered, and the cold damp sub-soil is favourable to certain kinds of disease.

The more than usual copious rainfall of the year, as will be seen from the Surveyor's Report, amounted to not less than 63.23 inches. This, by washing the air, the roads, and the sewers has, however, been favourable on the whole to health.

Old property is less occupied, and if the cotton trade had been more prosperous this gratifying feature in our social life would have been still more marked.

VITAL STATISTICS.

THE MORTALITY.—During the year there were 549 deaths in the Borough, as compared with 518 in 1902, 589 in 1901, 582 in 1900, 559 in 1899, and 569 in 1898. But the 549 included 73 persons not belonging to the Borough, and, deducting these, the Death Rate equals 15.23 for the year for the resident population. During 1902 the Borough

Death Rate was 14.14 and if it had not been for a severe epidemic of measles (causing 16 deaths in the last month of the year) the rate would have been nearly as low as in 1902. In 1901 it was 16.66; 1900, 16.7; 1899, 15.9; and 1898, 16.7 per thousand of the population.

Compared with the Lancashire Administrative County (Ad. Co.), and with the rest of the country for the previous year, later statistics not being available, the result is seen to be as follows:—

Rawtenstall, 1903 15.23

*Lancashire (Ad. Co.), 1902 15.26 (Urban 15.43, Rural 14.08).

England and Wales, 1902... 16.3 (76 large towns 17.4). This shows a further reduction of mortality in the Borough, the rate for 1902 being 16.98, which was also the average of the ten previous years.

THE DEATHS OF OUTSIDERS.—With respect to the deaths within the Borough of persons not belonging to the Borough (73 in the Workhouse for instance), and therefore not included in the Borough death-rate, some modification of return will probably become necessary. For although the Workhouse mortality is sent to the Local Government Board as “Deaths in Public Institutions,” the sea-side and health resorts, having a considerable number of sick people who go thereto for health, yet die there, are naturally disposed to reject these from their own returns, because they make their local mortality appear higher than is due to their towns. For instance, a citizen of Rawtenstall goes to Blackpool in a state of ill-health and dies there: Blackpool now

* From Dr. Sergeant’s Annual Medical Report for the County.

sends us that death to be added to our Borough mortality. Some uniform method which will secure complete yet just local returns is desirable.

BIRTH RATE.---The births numbered 687 (340 males and 347 females), yielding a rate of 21.95 as compared with 22.55 per thousand of the population in the previous year, 23.5 in 1901, 24.3 in 1900, and 24.9 in 1899. Again we have a sinking birth rate, the lowest for 13 years. From 1897 to 1902 the average birth rate was 24.71, while for the six years 1891 to 1896 it was 28.03.

These facts, taken with the comparative figures subjoined, are seriously suggestive :---

Rawtenstall's birth rate 1903	21.95
Lancashire (Ad. Co.) 1902	26.85
England and Wales 1902	28.6

INFANT MORTALITY.---The number of deaths of children under one year of age was 87, giving a rate of 126.6 per 1,000 children born. For the month of February it was as high as 214.3. The remarks of Dr. Smith last year may here be repeated, viz., that one out of seven children born in this Borough dies before completing its first year of life ; and that while children under one year constitute but 2.2 per cent. of the population they contribute 22 per cent. of the total deaths ; whereas by correct feeding and sanitary arrangements, not more, according to several authorities, than 10 per cent. ought to die.

The causes of these deaths have been as follows :--

Premature birth	10
Enteritis	8
Bronchitis	12
Pneumonia	8
Whooping cough	9
Tubercular disease	3
Measles	6
Other causes	31+87

It may be remarked that not a single infant died from Scarlet Fever, Convulsions, or Diarrhoea: the last-named disease being absent chiefly because of the absence of warm weather. But the number of fatal premature births, of deaths from Bronchitis and Pneumonia, and especially from Whooping Cough, is noticeable, and ought to be still further decreased.

It is gratifying to some extent that this early arrest of child-life is slowly diminishing, the average for the five previous years having been 148.4. Comparatively our position is as follows :--

	Per 1,000 Births.
Rawtenstall Infant Death Rate, 1903 ..	126.6
Lancashire Ad. Co., 1902	139.0
(Urban 143 ; Rural 116)	
England and Wales, 1902	133

A SERIOUS FACT.--Nevertheless, the attention of the Town Council and of the public is called to the ominous truth that even so modified an infant mortality amid a de-

creasing number of births is a menace to future municipal and national stability and well-being.

With respect to the deaths of infants it would be well for the Health Committee to again issue handbills throughout the Borough on the proper feeding and management of babies. In last year's Report Dr. Smith preferably advised the appointment of a lady Sanitary Inspector who should visit the homes of the people and tender such advice and instruction as might be deemed necessary on this and other important matters.

The total number of deaths under 5 years of age was 144--an annual mortality of 4.6 per 1,000 of the population, as against 4.0 in 1902, 4.95 in 1901, 5.85 in 1900, and 5.1 in 1899. The increase this year is largely due to so many (29) deaths from Measles and Whooping Cough.

THE PRINCIPAL ZYMOTIC DISEASES.--The notifications of these from the medical men of the Borough were:--Of Small-pox 37 (with 1 death), Scarlet Fever 59 (1 death), Diphtheria (including Membranous Croup) 22 (4 deaths), Enteric or Typhoid Fever 18 (5 deaths), Erysipelas 27, Puerperal Fever 4 (2 deaths); total 167 (and 13 deaths). To these must be added an unknown number of non-notified cases of Whooping Cough (which yielded 11 deaths), Measles (with 18 deaths, 16 of these occurring in December alone), and Epidemic Influenza (6 deaths, the same as in 1902).

The total mortality from Zymotic Diseases was 48, giving a Zymotic death-rate of 1.46 per thousand of the population, and double what it was in 1902 (0.61). This

high rate, in the absence of Diarrhoea, was due to Measles and Whooping Cough.

Rawtenstall, 1903	...	...	...	...	1.46
Lancashire (Ad. Co.), 1902	...	...	...	...	1.51
England and Wales	...	...	...	...	1.64

The deaths from zymotic diseases were in the high ratio of 8.47 per cent. of the number of deaths from all causes within the Borough, and double the proportion (4.3 per cent.) of the previous year.

During November and December three Schools (or departments thereof) were closed on account of Measles, viz., Waterfoot National, Waterfoot Board, and Cloughfold Board Schools.

Disinfection of the buildings was effected by the Sanitary Inspector before re-opening.

Small-pox.—After the two imported cases of November and December, 1902, there followed 17 cases in January, 8 in February, 5 in March, 2 in April, 3 in May, 1 in June, and 1 in September, total 37; 1 death occurred, that of a tramp, who brought the disease with him from elsewhere. Prompt isolation in the Borough's Small-pox Hospital of every case, and re-vaccination and quarantining of every "contact" or "suspect" as far as possible were practised. (For certain details of the cases see Mr. Rawling's Report).

As the Hospital became too full, the Town Council, on the advice of the Medical Officer and Emergency Committee, promptly agreed to add another iron pavilion for the accommodation of eight more beds. This was erected

by Mr. George Ginger, of Pendleton.* Though the disease ceased to increase by the time it was ready, the building was found exceedingly useful for housing families, while their homes were disinfected, and in other ways.

The Lodging-houses were required to report daily concerning their inmates; and caravans, etc., attending fairs within the Borough, were also diligently supervised by the Doctor or Sanitary Inspector. By none of the latter, however, was any infection brought to the town.

Here it may be said that Dr. Smith several times expressed to the Chairman his great satisfaction, not only with the services of the Nurses at the Hospital, but with those of the Caretakers, especially of Mrs. Lord, as an excellent and economical cook, and also with the work of Mr. Rawling and his assistants in their important functions of patient-removal, disinfection of premises, clothing, etc. And the Chairman would here place on record the appreciation of the Committee also; and not least of the Doctor's own faithful and untiring service, both in visiting houses, persuading exposed unvaccinated persons to be vaccinated and quarantined, and in attending the cases at the Hospital, several of which were bad confluent or haemorrhagic ones, and only one death occurred, that of a man from one of the lodging-houses.

Under the genial direction of the Doctor a most disagreeable and trying period to all concerned, often with night and day work, was passed through in a satisfactory manner. The Chairman, by personal visits to the Hospital and intimate acquaintance with all that was done, reported

* The total cost of the last small-pox epidemic and the extension of the small-pox Hospital was £634 12s. 5d.

to the Health Committee and the Town Council that the whole work was a credit to the Medical Officer and the entire staff.

Our experience of this and previous occurrences of Small-pox in the Borough, again raised the tramp question, and the difficulty of dealing with this class of persons, over whom public authorities have so little control. The Town Council has joined other public bodies in urging that greater compulsory powers should be granted by legislation. But the prevention of the formation of a constantly and loosely moving army of drinking, indolent, and often infected men and women throughout the country, is one of the chief national and social problems needing resolute attention everywhere. The cost of this class in Poor-law and other public money, and the cost in social deterioration, and non-productiveness and destructiveness is very great year by year.

In our own case, some respectable trades-people became infected by wandering dealers calling at their shops (the families unfortunately not being protected by vaccination or re-vaccination), and much loss of business ensued.

One gratifying outcome of the epidemic was that a very large number of residents sought the protection which vaccination affords for many years, and another was the fact that none of the children exposed to Small-pox, who had been vaccinated, contracted the disease, and the children (2) who did suffer were unvaccinated.

Undoubtedly, if after primary vaccination there was a universal re-vaccination at intervals of from twelve to

fifteen years, Small-pox would cease to be possible in this country.

Scarlet Fever.---Of the 59 cases notified, March was the only month exempt, the highest numbers being in May, June, and November, the rest spread over the other months. Several were adults. The number in 1902 was one more, viz., 60, and with only one death in each year.

Diphtheria and Membranous Croup. — These two diseases are here put together because they are not always clearly differentiated. There were 22 cases in various parts of the Borough, and pretty evenly spread over nine months of the year, September, October, and November being free. In 1902 there were 6 fewer cases, with 2 deaths (12.5 per cent.); this year there were 4 deaths, a mortality equal to 18 per cent. of the cases.

Typhoid or Enteric Fever.—Of this disease 18 cases were reported, as against 38 during the previous year. The deaths were 5, the same as the previous year, but yielding a case mortality at the high figure of 27.59 per cent.

A few of the above cases were due to additional persons becoming infected where the disease was already in the house; of a few the cause was not traceable; but the remainder were due to polluted water. In each case steps were taken to remedy defects in drainage or water supply according to the circumstances.

With regard to Diphtheria and Typhoid Fever, diseases due to preventible insanitary conditions, Dr. Smith's observations last year on open ash-pits and possible soakage of

sub-soil from defective close ones, may be referred to. "Even newly-made ashpits allow of soakage, and this decomposes and generally leaks downwards, infecting other houses. It is possible that this is the cause of infection in some of the cases in which I was unable to trace any definite source---especially is this likely when one bears in mind that the typhoid bacillus may live for a very long time if it has a suitable feeding ground. A suitable feeding ground is provided by an ashpit into which is placed not only ashes but also vegetable refuse. All vegetable and other combustible refuse ought to be burned at once and never placed in ashpits, and anyone found casting in excrementitious matter, whether liquid or solid, ought to be prosecuted."

Whooping Cough, as before pointed out, gave rise to 11 deaths. The prevailing ignorant practice of mothers taking their suffering children "into the fresh air" in all states of the temperature is to be severely condemned, since it is highly promotive of chest mischief, as well as of infection of other children. Any woman needlessly exposing a child suffering from Whooping Cough in any public place or assembly, where there are other young children, deserves prompt censure if not prosecution.

Measles.---The beginning of a rapidly spreading epidemic of this disease appeared towards the close of the year. The Head Schoolmasters and Mistresses at the various day-schools are kept supplied with post-cards whereby they may report any known suspected cases of Measles or other infectious diseases, and are instructed at the same time to require the absence from school of any patient or member

of the same family. This information is highly important, and the teachers are mostly very loyal to the wish of the Town Council in the matter.

With regard to Measles, it is recommended that the Sub-Committee having power to close day-schools when the disease is spreading, should be empowered to act before one fifth of the scholars in a department have to be absent on account thereof; earlier closing would be more effective in preventing the spread of Measles.

Erysipelas.—Although there were 27 cases reported it is unlikely that any of these were of the infectious character which led to that disease being made notifiable. No deaths therefrom occurred.

Diarrhœa is returned as having caused but three deaths, one each in July, August, and October. The weather through the year was unfavourable to the development of conditions leading to Diarrhœa.

RESPIRATORY DISEASES.—These, chiefly Bronchitis, Pneumonia, and Pleurisy, and excluding Phthisis, account for 103 deaths (5 fewer than in 1902), and give a rate of 3.3 per 1,000, which is about the average for several years back. The Ad. Co. of Lancashire, however, yielded but a rate of 2.9, the Rural Districts being 2.44. Our mortality from Respiratory Diseases is too greatly augmented by the conditions attending factory life and their influence on young children, as has been before pointed out. Of the deaths from Respiratory Diseases, 20 per cent. were infants under one year of age, and 16.5 per cent were children under five years. The highest number of deaths occurred during the first six and the last three months of the year.

Phthisis.---The mortality from Phthisis during 1903 was 30, as against 19 in the previous year, 25 in 1901, 48 in 1900, 27 in 1899, and 43 in 1898. The annual death-rate was 0.96, as compared with 0.61 in 1902, and 0.8 in 1901.

Other Tubercular Diseases yielded 17 deaths. Combining these with Phthisis we have a tubercular death-rate of 1.5 per thousand of the population, as compared with 1.06 in 1902, and 1.48 in 1901.

In last year's Report, Dr. Smith drew special attention to the causes and prevention of Phthisis, specifying especially alcoholism, overcrowding and insanitary conditions; and as one consequence of his action the tram-cars in the Borough exhibited cards discouraging expectoration therein, and the unseemly and insanitary practice is considerably diminished in public vehicles. It may be repeated that the expectoration of a phthisical person is infectious, and that, when it dries, may become blown about and infect others with the germs of Phthisis. The full information and recommendations of last year's Report are well worthy of perusal (see pages 15-22 of the 1902 Report).

WATER SUPPLY.--Several of the private supplies were visited by the Medical Officer, and, where found faulty, were remedied. The public supply of the Bury and District Joint Water Board gave less reason for complaint than for several years back. The quantity was abundant and the quality generally good. The filtering beds both at Clowbridge and Cloughbottom are nearing completion.

THE MILK SUPPLY is fairly good, though the remarks of last year remain applicable still.

THE BAKEHOUSES were visited by the Medical Officer, and the Sanitary Inspector, and were mostly found in a good condition, but some needed improvement which has been almost all effected.

THE COMMON LODGING-HOUSES were also inspected from time to time. The Medical Officer was of decided opinion that a Municipal Lodging-house ought to be substituted for the present places; it would cost less in the long-run than the expensive following up of Small-pox and other conditions which the lower type of lodging-house patrons mostly are responsible for. Full supervision and control here would be of great value, not only on sanitary, but other grounds.

Dr. Smith made enquiries from a number of towns, and the following are amongst the places which have Municipal Lodging-houses—none of which are worked for the sake of a cash profit, but for sanitary, and other good reasons.

Huddersfield, 194 beds, 3d. and 5d. per night.

Manchester, 363 beds, 6d. per night; disinfecting apparatus provided and used when required; baths, lavatories, etc.

Salford, 285 beds, 6d. per night, or 2s. 9d. per week.

Darwen, 101 beds for men, and 29 for women, 5d. per night, or 2s. 6d. per week; disinfection, baths, etc.

S.C.

The following tables appended, have been compiled for Dr. Smith by Dr. Edward.

TABLE 1.—Vital Statistics of whole District during 1903 and Previous Years.

YEAR.	Population estimated to middle of each Year.	BIRTHS		DEATHS UNDER 1 YEAR OF AGE		TOTAL DEATHS AT ALL AGES.		TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT.	Deaths of Non-residents registered in Public Institutions in District.	Deaths of Residents registered in Public Institutions beyond the District	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Num-ber	Rate*	Number	Rate per 1,000 Births regist'r'd.	Number	Rate.*				Num-ber.	Rate.*
1893.....	29,849	848	28·4	140	166	637	21·4	80	59	.....	578	19·3
1894.....	30,002	778	25·9	93	119	509	16·9	70	54	.....	465	15·4
1895.....	30,156	876	29·0	125	154	619	20·5	77	69	.....	550	18·2
1896.....	30,310	806	26·3	141	173·7	599	19·7	77	52	.....	547	18·04
1897.....	30,464	812	26·6	151	182·2	625	20·5	80	60	.....	565	18·8
1898.....	30,620	811	26·4	127	156·6	569	18·5	83	57	.....	512	16·7
1899.....	30,770	769	24·9	110	148	559	18·1	95	69	.....	490	15·9
1900.....	30,934	752	24·3	115	153	582	18·8	87	64	.....	518	16·7
1901.....	31,090	731	23·5	106	146·37	587	18·9	85	69	2	520	16·66
1902.....	31,170	703	22·55	97	137·9	517	16·5	94	76	1	442	14·14
Averages for years 1893-1902	30,536	788·6	25·78	120·5	153·67	580·3	18·9	82·8	62·9	·3	518·7	16·98
1903.....	31,250	687	21·95	87	126·6	549	17·5	95	73		476	15·23

* Rates calculated per 1,000 of estimated population.

Area of District in Acres, 9,528.

Total population at all ages, 31,053.

Number of inhabited houses, 6,875.

Average number of persons per house, 4·5.

TABLE III.—Cases of Infectious Diseases notified during the year 1903.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							No. of cases removed to Hospital from each Locality.
	At all Ages	At Ages—Years					65 and upwards	
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65		
Smallpox	37	...	1	1	6	28	1	37
Diphtheria	18	...	10	7	...	1	...	...
Membranous Croup.....	2	...	1	1	...	...	...	...
Erysipelas	24	...	...	1	6	17	...	...
Scarlet Fever	69	1	22	34	10	2	...	...
Enteric Fever.....	17	...	1	2	6	8	...	...
Puerperal Fever	4	...	...	...	1	3	...	...
Totals	171	1	35	46	29	59	1	37

TABLE IV.

Causes of, and Ages at, Death during Year 1903.

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN PUBLIC INSTITUTIONS
	All Ages	Under 1 Year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	
Smallpox.....	1	...	...	...	...	1	...	1
Measles	18	6	11	1	...	...	...	...
Scarlet Fever.....	1	...	1	...	...	...	...	...
Whooping Cough.....	11	9	2	...	...	...	...	...
Diphtheria and Membranous Croup.....	4	...	2	2	...	...	...	...
Croup.....	1	...	1	...	...	...	...	...
Enteric Fever.....	5	...	...	1	2	2	...	...
Epidemic Influenza.....	6	...	...	...	2	4	...	2
Diarrhœa	4	...	3	...	...	1	...	...
Enteritis.....	10	8	2	...	...	...	...	1
Puerperal Fever.....	2	...	...	...	...	2	...	...
Other Septic Diseases...	6	...	...	1	...	2	3	3
Phthisis	30	...	1	...	3	23	3	13
Other Tubercular Diseases	17	3	7	3	2	2	...	...
Cancer, Malignant Disease.....	19	...	...	1	...	15	3	3
Bronchitis	36	12	4	...	...	5	15	5
Pneumonia	53	8	12	...	2	18	13	7
Pleurisy	1	...	1	...	...	...	...	...
Other Diseases of Respiratory Organs.....	7	...	...	...	...	7	...	2
Alcoholism	6	...	...	...	...	6	...	1
Cirrhosis of Liver }								
Venereal Diseases.....	2	1	...	...	...	1	...	3
Premature Birth.....	10	10	...	...	...	...	...	...
Diseases and Accidents of Parturition.....	3	...	...	...	...	3	...	...
Heart Diseases.....	57	...	...	3	5	30	19	21
Accidents	11	1	1	...	2	5	2	2
Suicides	1	...	...	...	...	1	...	...
All other Causes.....	154	29	9	...	6	56	54	32
All Causes.....	476	87	57	12	24	184	112	96

Borough of



Rawtenstall.

ANNUAL REPORT

OF THE

Inspector of Nuisances,

FOR THE

Year ending 31st December, 1903.

To the Health Committee of the Borough of Rawtenstall.

GENTLEMEN,

I have much pleasure in laying before you my 17th Annual Report of Work done in the Health Department of the Borough for the year ending 31st December 1903.

Particulars of Work.

187 Nuisances have been reported by me to the Committee, connected with 332 houses and premises.

Notice by Letters calling attention to the nuisances	27	
1st Notices served	163	
2nd Notices served	56	
	<hr/>	246
Notices to Lodging-house Keepers	20	
Notices re black-smoke from chimneys	6	
	<hr/>	26

Work carried out in compliance with Notices and at cost of owners, viz :—

New water closets erected in place of privies, &c	4	
Closets converted to the Water Carriage System...	31	
	<hr/>	35
New pail closets erected in place of delapidated ones or deficiencies	8	
Midden Closets converted to Pail Closets ...	19	
	<hr/>	27
Closets repaired, etc.	11	
Dirty closets cleaned, etc	16	
Closets provided with new pails	2	
	<hr/>	29

New house and yard drains laid to sewer	...	...	158
House drains repaired and trapped	...	...	62
Slopstone pipes disconnected from drains	...	...	25
Slopstone pipes trapped	...	...	49
Gully traps cleaned out, repaired etc.,	...	...	3
			<hr/> 297
			<hr/>
Yards, passages, etc., cleaned	...	...	3
Yards repaired, flagged, etc.,	...	...	2
			<hr/> 5
			<hr/>
Ashpits repaired, covered, etc.,	...	...	4
New ashbins provided	...	...	153
			<hr/> 157
			<hr/>
New eaves and downtroughs provided	...	...	9
Eaves and downtroughs repaired, etc.,	...	...	7
			<hr/> 16
			<hr/>
Pigs removed, improperly kept	...	...	1
			<hr/> 1
			<hr/>

Besides the work above-mentioned, notices were served on the owners of property, on the west side of Schofield Road, Rawtenstall, from No. 2 to 40, and on the east side of Gordon Street, from No. 1 to 19, in the year 1901, to lay down new earthenware pipe drains, with all necessary man-holes, lampholes, trapped gullies and grates, and connect the said drains to the Main Sewer. The owners were also recommended to have the pail closets converted to the

Water Carriage System, but owing to serious difficulties which then existed, the work could not then be carried out. But I am pleased to be able to state that during the year 1903 this property has all been redrained, the closets converted to the Water Carriage System and connected to the Main Sewer.

Infectious Diseases.

The following Infectious Diseases have been reported during the year 1903.

	1903	1902
Scarlet Fever	66	60
Enteric or Typhoid Fever	17	38
Puerperal Fever	4	4
Diphtheria	18	14
Membranous Croup ...	2	2
Erysipelas	26	25
Variola (Small-pox) ..	39	2

Total.....	172	Total... 145
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The number of Schools Disinfected during the year, to prevent the spread of Infectious Diseases amongst the children attending the Schools was 18

Disinfections at Mills 2

Houses disinfected after Infectious Diseases 101

Lots of Bedding removed to Hospital and disinfected 103

Including the following articles,

Beds	...	...	...	...	123
Mattresses	...	...	...	...	119
Blankets	...	...	...	...	169
Quilts	...	...	...	...	142
Sheets	...	...	...	...	105
Bolsters	...	...	...	...	115
Pillows	...	...	...	...	132
Cushions...	...	...	...	...	16
Door Mats	...	...	...	...	10
Hearth Rugs	...	...	...	...	22
Ladies Jackets	...	...	...	...	8
Coats	...	...	...	...	29
Jackets	...	...	...	...	11
Trousers...	...	...	...	...	14
Vests	...	...	...	...	7
Carpets	...	...	...	...	5
Shawls	...	...	...	...	11
Other articles of clothing, &c.,	...	...	...	...	217
Total					<u>1255</u>

Disinfecting of bedding from Infectious Cases has taken place at the Hospital Disinfector, on 20 full days of the year, and on 38 other days, part of the day only, making equal to 41 full days.

Circular letters have been sent to the following Schoolmasters and school-mistresses, notifying children suffering from Infectious Diseases during the year 1903 :—

	No. of Letters sent.
Mr. John Watson, Board School, Water	1
„ William Smith, National School, Lumb	0
„ G. H. Bellhouse, Board School, Whitewell Bottom	2
„ J. W. Woodcock, National School, Edgeside ...	1
Miss Almond, St. Peter's R.C. School, Newchurch ...	0
Mr. William Bracegirdle, National School, Newchurch	2
„ W. E. Metcalfe, Board School, Waterfoot ...	3
Miss Hargreaves, Board School, Cowpe	0
Mrs. Ashworth, National School, Waterfoot	1
Mr. W. T. Hoyle, Board School, Cloughfold... ..	4
„ Henry Kneeshaw, National School, Cloughfold ...	1
„ W. J. Dunkin, Board School, Rawtenstall ...	3
„ Henry Hunt, National School, Rawtenstall ...	8
„ C. K. Parker, Board School, Townsend Fold ...	2
Miss Doyle, St. James' R.C. School, Rawtenstall ...	0
Mr. Matthew Chadwick, National School, Constablelee	2
„ G. L. Littlewood, Wesleyan School, Crawshawb'th	4
Dr. Barrow, National School, Crawshawbooth ...	2
Mr. W. H. Scarr, Board School, Goodshaw	0
Miss Ecroyd, Board School, Love Clough	3
Mr. John Farnworth, Baptist School, Clowbridge ...	4
Miss Sloan, Haslingden Road, Rawtenstall	1
„ Taylor, Queen's Terrace, Rawtenstall	1
Mr. T. E. Jackson, Grammar School, Newchurch ...	1
Total	<u>46</u>

On account of a serious outbreak of measles within the Borough, the following schools were closed by order of the Council, viz :—

Waterfoot National School from November 13th to December 5th.

Waterfoot National School, and further from December 5th, to January 4th, 1904.

Waterfoot Board School (Infants) from December 5th, 1903 to January 4th, 1904.

Waterfoot Board School (Mixed Dept.) from December 11th, 1903 to January 4th, 1904-

Cloughfold Board School (Infants) from December 5th, 1903 to January 4th, 1904.

Cloughfold Board School (Mixed Dept.) from December 11th, 1903 to January 4th, 1904.

Smallpox Outbreak.

During the year 1903, we have had to deal with 37 cases of Smallpox at the Borough Hospital. The cases occurred in the months as recorded :—

January, 17 ; February, 8 ; March, 5 ; April, 2 ; May, 3 ; June, 1 ; September, 1 ; Total 37.

Twenty-one of these cases were residents within the Borough, and occurred at the following places, viz :—

Victoria Street, Cloughfold, 3 ; St. James' Street, Waterfoot, 3 ; Lime Tree Grove, Constablelee, Rawtenstall, 1 ; New Inn Terrace, Crawshawbooth, 1 ; Goodshaw Fold, Crawshawbooth, 2 ; Loveclough Fold, Crawshawbooth, 1 ; York Street, Crawshawbooth, 1 ; Hareholme Lane, Cloughfold, 1 ; Bank Street, Rawtenstall, 2 ; Lord Street W., Rawtenstall, 5 ; Burnley Road, Hollin, Waterfoot, 1 ; Total 21.

The remaining 16 cases were from Common Lodging-houses and other places as follows, viz :—

George Cunliffe's Lodging-house, Rawtenstall, 3 ; James Stott's Lodging-house, Rawtenstall, 4 ; David Crowther's Lodging-house, Rawtenstall, 1 ; Thomas Nuttall's Lodging-house, Rawtenstall, (Furnished Room) 1 ; Kate Doyle's Lodging-house, Rawtenstall, 3 ; Pike Law Workhouse, 2 ; Taken off the Streets, Rawtenstall, 1 ; Taken off the Streets, Crawshawbooth, 1 ; Total 16.

After the New Ward was erected at the Hospital, several families amongst whom had been a case of Smallpox were removed to the New Ward, whilst their homes, clothes, bedding, etc., were disinfected. They also had a bath and changed their clothes before returning to their homes.

On account of this outbreak, the Common Lodging-house Keepers were served with notices to comply with Sec. 83 of the Public Health Act, to furnish daily returns of the persons visiting their houses during the preceeding day and night. Those notices were repeated from time to time, and daily returns furnished from the beginning of the year up to August 17th last.

Registered Common Lodging-house visited and	
inspected	5
Registered Slaughter-houses inspected	38
Tripe Dressing premises inspected	4
Gut Scraping and Cleaning premises inspected	1

Vans used as dwellings attending fairs visited and inspected :—

	Vans.	Adults.	Children.	Total.
Crawshawbooth Fair	2 c'ntaini'g	4	0	4
Rawtenstall Fair ...	30 „	67	21	88
Newchurch Fair ...	26 „	57	16	73
Total	58	128	37	165

The majority of these vans were found to be kept in a very clean state, and some are furnished like little palaces. Some few were not as clean as they might be, but we did not find any case of overcrowding or Infectious Disease.

The Scavenging work carried out during the year was as follows, viz. :

Excreta pails emptied	...	...	...	...	177070
Excreta tanks „	...	...	...	...	215
Ashbins ... „	...	...	...	...	156096
Ashpits ... „	...	...	...	...	5867
Loads of excreta removed...	...	...	...	...	3423
Cost	£688	12s. 2d.	average per load	4s. 0¼d.	
Loads of ashes removed	...	...	...	...	8257
Cost	£1067	13s. 7d.	average per load	2s. 7d.	
Loads of Destructor Residuum removed					493
Cost	£37	1s. 2d.	average per load	1s. 6d.	
Total loads removed...	...	...	...	...	12173
Cost	£1793	6s. 11d.	average per load	2s. 11¼d.	

We also collect, three times weekly, trade refuse from 17 Butchers, Greengrocers, etc., for which a charge is made of 6d. per week, amounting for the year to £21 9s. od.

Destructor.

	T.	C.	Q.
Amount of refuse carted in	3467	5	0
Amount of tins, pots, etc., carted out	56	18	0
Actual amount of refuse burnt	<u>3410</u>	<u>7</u>	<u>0</u>
Amount of clinker, fine ash, & flue dust carted out	1334	3	0
Percentage of clinker, etc... ..		39'12%	

Contagious Diseases Animals Acts.

The following cases of Anthrax have been reported during the year, under the Contagious Diseases Animals Acts.

Our first case for the year was reported at the premises occupied by John Grime, Lower Fold Farm, Cowpe. I visited the Farm and called in Mr. Simpson, Veterinary Surgeon, to see the carcase of a beast which had died. He gave a certificate, that in his opinion, the beast had died of Anthrax. We had the carcase buried on the Farm the same day and covered with quick-lime. The Cowshed was cleansed, disinfected and lime-washed, and the case reported to the Board of Agriculture.

The second case was reported on the 12th April, at the late James Jordon's, Bottoms Farm, Cowpe. In this case the beast was dead before being reported. I went up with Mr. Simpson to see the carcase, and he certified it to have died of Anthrax. This carcase was buried in quick-lime on the Farm, the Cowshed cleansed, disinfected and lime-washed, and was duly reported to the Board of Agriculture.

The third case was reported to me about noon on the 27th April, by Mr Simpson, Veterinary Surgeon, who had attended the beast the previous day, on behalf of the owner Mr. H. H. Bolton at Height Side, Newchurch. Mr. Simpson reported that the cow had died of Anthrax, on the previous day, Sunday the 26th. I went up immediately and made arrangements for its being buried, sending up quick lime for the purpose. I found it in a loose box in the yard, yet the stench from it could be smelled all over the yard with the door shut. We used plenty of disinfectants, and had the carcase removed and buried the same afternoon. The premises were afterwards cleansed, disinfected and limewashed, and the outbreak reported to the Board of Agriculture. This case ought to have been reported either on Sunday the 26th, or early on the Monday morning the 27th.

Swine Fever.

On Friday night 10th July, George Henry Lord reported to me at Waterfoot, that he suspected Swine Fever amongst his pigs at Hareholme. On visiting his premises on the following morning, I found three or four very suspicious cases amongst two litters of young pigs. I reported the matter by telegraph to the Board of Agriculture at once. On the following day Sunday, Mr. Carter, Veterinary Surgeon of Burnley, visited on behalf of the Board, and he opened one of the pigs which had died, and he said it had died from Swine Fever. The intestines were sent to the Veterinary Department of the Board of Agriculture who confirmed the outbreak. On Wednesday the 15th, an Inspector of the Board came down, and after arranging with Mr. Lord as to price, he had the whole

of the pigs (17 in number) slaughtered, and the carcasses were conveyed to our Destructor Works, and there destroyed in the furnace.

On Monday July 20th, suspected Swine Fever was reported at John Grime's Farm, Cowpe. Two young pigs had died, but on a post mortem examination being made by Mr. W. D. Simpson, he could find no traces of Swine Fever.

Rabies, Sheep Scab.

No cases of rabies in dogs, or of sheep scab amongst sheep have been reported during the year.

Ambulance Cases.

The horse ambulance has been called out 18 times during the twelve months of 1903.

Monday, 19th January. Removed Mrs. Rebecca Dennis from 9 Hall Carr Cottages, Rawtenstall, to Manchester Infirmary. (Spinal Complaint.)

Thursday, 12th February. Removed John Webden from Back Alma Cottages, Cloughfold, to Manchester Infirmary. (Double Rupture.)

Wednesday, 18th March. Removed James Schofield from Patrick Square, Higher Cloughfold, to Hollin Lane, Rawtenstall. (Old Age.)

Saturday, 21st March. Removed Mrs. Frost from 2 Dobbin Fold to Manchester Infirmary. (Diseased leg.)

Sunday, 29th March. Removed Mrs. Hilton, wife of P. S. Hilton of Crawshawbooth, to St. Mary's Hospital, Quay Street, Manchester. (Internal complaint.)

Saturday, 25th April. Removed Mrs. M. A. Aldred from 19, Burnley Road, Rawtenstall, to St. Mary's Hospital, Quay Street, Manchester. (Nephritis & Pregnancy.)

Tuesday, 28th April. Removed Mrs. Eddleston from Bonfire Hill, Crawshawbooth to St. Mary's Hospital Quay Street Manchester. (Internal Complaint.)

Wednesday, 29th April. Removed Mrs. Hawkes from Schofield Street, Waterfoot, to the Haslingden Union Workhouse Hospital. (Fractured thigh.)

Monday, 4th April. Removed Mrs. Hilton, wife of P. S. Hilton, from Rawtenstall station to her home, Burnley Road Crawshawbooth. (Convalescent.)

Friday, 15th May. Removed Joseph Ingham from Rawtenstall Station to his home, Rings Row, Crawshawbooth. (Consumption.)

Friday, 29th May. Removed Mrs. Rowell from 419 Bury Road, Towsend Fold to the Eye Hospital, Oxford Street Manchester.

Friday, 26th June. Removed the daughter of Dan Halstead, from Rawtenstall station to her home, Mill Row, Rawtenstall. (Broken foot.)

Saturday, 27th June. Removed William Burton from Bank Street, Rawtenstall, to his home Burnley Road, Crawshawbooth. (Fit.)

1—40 a.m. Saturday 4th July. Removed James Sutcliffe from J. W. Mitchell's Bleach Works, Cloughfold, to his home, Whitehead Street, Rawtenstall. (Severe Scald.)

Monday, 20th July. Removed Mrs. Boocock from 21 Back Carr Terrace, Bury Road, Rawtenstall, to Blackburn Infirmary. (Diseased leg.)

Saturday, 5th September. Removed Lawrence William Ormerod from Crawshawbooth to his home, Hurst Wood Hall, Worsthorne, Near Burnley. (Fractured leg.)

Monday, 12th September. Removed Michael Keirone from Longholme Shed to his home, 285 Blackburn Road, Acre, Haslingden. (Accident.)

Monday, 2nd November. Removed John Bratt from his home, 44 Burnley Road, Clowbridge, to Victoria Hospital, Burnley. (Injury to neck.)

Factory and Workshops Act, 1901.

Under the Workshops Act 1901, the workshops within the Borough have been visited and inspected, and on the whole have been found in a fairly clean condition. In one or two instances, the walls and ceilings required to be limewashed, and on this being pointed out to the owners, they were willing to comply with the Act, and have them done.

There are the following workshops within the Borough coming under the Act, viz: -

Dressmakers' Establishments	...	...	...	25
Milliners' „	...	...	...	15
Dressmakers & Milliners combined	...	...		5
Underclothing Establishments	...	...		1
Stocking Knitting „	...	...	...	1
Stay and Corset making Establishments	...	...		1

Tailors' Establishments	...	...	...	12
Boot and Shoe Makers Establishments	...	...	...	14
Boot, Shoe and Clog	„	...	...	10
Clog Establishments	...	...	...	28
Bakers and Confectioners	...	...	...	23
Oat Cake Bakers	...	...	...	2
Manufacturing Chemists	...	..	...	1
Brush Makers	...	...	...	1
Saddlers	...	...	...	4
Tinsmiths	...	...	...	4
Cabinet Makers	...	...	...	5
Rope Makers	...	...	...	1
				<hr/>
				153
				<hr/>

The following are places where no Workshops are on the premises, but where work is sent out to be done —

Tailors	...	...	...	...	...	...	4
Boot & Shoe Makers			...	...	...	...	5
Shirt Makers		...	...	...	...	...	1
							<hr/>
							10

Markets and Fairs.

The Market rents and tolls received for the year were as follows.

	£.	s.	d.
Rawtenstall Market 144 items	19	11	1
Mrs. Holden for use of ground, June fair	31	0	0
	<hr/>		
	50	11	1

Waterfoot Market	..	...	..		124	19	11
Stable Rent	...	...	...	...	6	10	0

131	9	11
-----	---	----

Collected in streets, Crawshawbooth Fair					1	0	3
„ „ „ Rawtenstall „					1	6	1
„ „ „ Newchurch „					2	3	10
					4	10	3

Summary.

Rawtenstall Market and Fair	...	...		50	11	1
Waterfoot Market and stable	...	...		131	9	11
Collected from stalls in streets at Fairs.	...			4	10	2
				186	11	2

GEORGE RAWLING,

INSPECTOR,

Borough of



Rawtenstall.

REPORT

ON

MAIN SEWERAGE,

SURFACE WATER DRAINAGE,

HOUSE CONNECTIONS,

AND OTHER MATTERS,

BY THE

BOROUGH ENGINEER AND SURVEYOR

(J. JOHNSON),

WITH PARTICULARS OF

OUTLAY UPON SEWERAGE WORK,

NUMBER OF HOUSES CONNECTED,

WATER CLOSETS, ETC.,

FROM COMMENCEMENT OF WORK TO 24TH MARCH, 1904.

Municipal Offices, Rawtenstall,
March, 1904.

BOROUGH OF RAWTENSTALL.

ENGINEER'S DEPARTMENT,

MUNICIPAL OFFICES,

MARCH, 1904.

REPORT AS TO PROGRESS OF MAIN SEWERAGE AND HOUSE CONNECTIONS, &c.

Sewerage and Surface Water Drains.

The Sewerage Scheme in general outline was prepared in 1890 by Mr. J. E. Swindlehurst, C.E., Engineer to Local Board (now City Engineer, Coventry), and an enquiry held by Local Government Board on 2nd June, 1891, as to application by Rawtenstall Corporation for sanction to borrow £52,000, as follows, namely:—

	£	s.	d.
Main Sewers	31,984	14	8
Surface Water Drains	1,500	0	0
Private Street Sewers, etc.	13,543	0	9
Contingencies	4,972	4	7
	<hr/>		
	£52,000	0	0
	<hr/> <hr/>		

On the formation of the Rawtenstall and Bacup Joint Sewer Committee in 1893, the Local Government Board sanctioned the Rawtenstall Scheme (4th August, 1893) and granted power to borrow £41,800, repayable in 30 years, having reduced the first estimate by £10,200; the estimated cost (had not the Joint Sewer Committee been formed) of the Bacup Road and Outfall Sewer for Rawtenstall, between the Sewage Works at Ewood Bridge and the Borough boundary at Glen Top. The delay from 1891 to 1893 was caused by the negotiations with respect to the inclusion of Bacup with the Haslingden and Rawtenstall Sewage Scheme.

Deducting £10,200, and apportioning the item for contingencies, the estimates may be taken as standing as follows, namely:—

	£	s.	d.
Main Sewers	25,102	19	3
Surface Water Drains	1,800	0	0
Private Street Sewers	14,897	0	9
	<hr/>		
	£41,800	0	0
	<hr/>		

The Sewers included in the above loan were commenced in 1894, and have been proceeding from time to time up to October 14, 1903. Several of the sewers have been laid by means of direct labour.

The following statement shows the amount spent on the Sewerage Scheme up to March, 1904 (excluding any contribution to the cost of the Rawtenstall and Bacup Joint Sewer), namely:—

	£	s.	d.
Main Sewers	32,980	5	11
Storm Water Drains	3,107	6	8
Private Street Sewers	3,439	8	9
Borough Survey, Engineer- ing Plans }	£ 3,906	s. 2	d. 6
Supervision, &c..... }			
Less received from Joint Sewer Committee for their proportion	1,547	2	2
	<hr/>		
	2,359	0	4
	<hr/>		
	£41,886	1	8
	<hr/>		

Reference to the above statement will show that the amount borrowed (£41,800) has now been spent, although all the sewers are not yet laid, and until additional borrowing powers for the sewers not yet laid have been obtained, the work is temporarily stopped.

A total of about 21 miles of main and subsidiary sewers are required to enable the Borough to be drained effectively.

Appendix A shows that 23 3-16 miles of sewers have been laid to date. Many side connections have also been laid under the main roads to enable both present and future property to be connected.

Appendix C shows that about $4\frac{1}{2}$ miles of sewers are still required.

Surface and subsoil water has, and continues to be excluded from the new sewers, being diverted into the

nearest watercourses, etc.; this diversion of fresh-water from the foul-water sewers being, of course, a great relief to the Outfall Works, both from the purification and financial points of view.

The main roads, being mostly parallel with the rivers, and the subsidiary roads and streets either parallel with or falling thereto, the opportunities for adopting and carrying out the "Separate" system (viz., conveyance of surface water to rivers in pipes or drains separate from the sewage) are favourable.

The following are the conditions as to sewerage, etc., observed in the Borough.

1. No manufacturer's refuse is allowed to be turned into any of the sewers.
2. In case of work executed, and new buildings erected, under the building bye-laws, Surface and Subsoil Water is (as far as practicable, having regard to expense and special conditions of each case) separated from the sewage.
3. In case of drainage works executed under notices from the Health Committee, condition No. 2 is also observed.
4. Road and street gullies and downspouts from front roofs are connected to storm-water drains.
5. Rain water from back streets and back roofs is only allowed to go into the foul-water sewer if the houses already have, or are to be, provided with water-closets.

During the past few years over three miles of storm water drains, with about 600 new gullies, have been put down, and many old surface drains have been repaired and cleaned.

From careful enquiry there appears to be about 100 surface gullies discharging into the Outfall Main Sewer, equal to a volume of probably five million gallons per annum. Such gullies were put down some years ago in various streets then paved and sewered, the sewers (with the gullies attached) having since been connected to the Outfall System. These gullies, however, can be connected to storm-water drains at moderate cost, as opportunities occur.

Appendix D is a list of the Storm Overflows on the main sewers.

House Connections, Etc.

There are about 7,486 houses in the Borough, but as probably 700 consist of farms and farm cottages scattered about the hillsides, which cannot be coupled to the sewers except at a cost out of all proportion to the benefits to be derived, there remain, say, 6,786 houses to be dealt with. Of these 300 are usually unoccupied.

The connection of the houses and other premises was started in 1897.

Up to March, 1904, 3,648 houses, including schools, works, and other similar places, have been coupled up with the Trunk Sewers. One thousand eight hundred and fifteen of these have been connected by the Corporation Staff, at

the expense and on the request of the owners at a cost of £7,702 6s. 5d., this amount including £367 16s. 4d., the charges, at the rate of 5 per cent. upon actual cost, for supervision. The sum of 5 per cent. is also added to the net contract price of materials, so as to cover storage and other incidental charges.

With a few exceptions the owners have shown the utmost willingness to connect their property.

Considerable progress has been made with the conversion of pail closets to the water-carriage system, there having been, during the past year, 168 pail closets and 39 privy closets converted. At March, 1904, there were about 1,662 slop-water closets and 374 fresh-water closets in the Borough; these figures include the W.C.'s in existence at the date of the last report, the conversions since, and those put in at the new houses built during the year.

Of course a considerable number of pail closets remain at some of the houses whose drains are connected up owing to the levels of the closets making it impracticable to convert them to the waste-water carriage system, and owners do not care in such cases to put in fresh-water closets, as the Water Board charge five shillings yearly for each W.C.

It is roughly computed that there are also about 100 more fresh-water closets at better class houses in the Borough now discharging into cesspools, etc.

The figures as to water-closets indicate that the allowances (£2 for each sanitary closet, and £1 for each insanitary closet) granted by the Corporation for conversions are largely availed of.

The Borough Engineer has, to February, 1904, certified £2,751 as due to the owners for such work.

The resolutions of the Council on this subject are as follows :—

Extract from the Minutes, 12th May, 1897.

Conversion of Privies, Etc., in an Insanitary Condition to Water-Closets.

“Resolved—That the owner of any privy or privies, closet or closets, in an insanitary condition, who converts the same to the water-carriage system, with the sanction of the Corporation, shall be allowed the sum of £1 towards the cost of each water-closet provided, on condition that the conversion and all work incidental thereto be done to the satisfaction of the Borough Surveyor.

Conversion of Privies, &c., in a Sanitary Condition to Water-Closets.

“Resolved—That the owner of any privy or privies, closet or closets, in a sanitary condition, who converts the same to the water-carriage system, with the sanction of the Corporation, shall be allowed the sum of £2 towards the cost of each water-closet provided, on condition that the conversion and all work incidental thereto be done to the satisfaction of the Borough Surveyor.”

Extracts from Minutes, February, 1899.

Slop-Water Closets where Main Sewers not laid.

“Resolved—That if owners proposing to erect property in places where the Main Sewers are not yet laid, will

construct the requisite closets on the slop-water system, and will cause pails to be used until the Main Sewers are laid, an allowance of £1 per closet be made them when they complete and connect such water-closets to the sewers, to the satisfaction of the Borough Surveyor, and discontinue the use of the pails."

The same allowances are granted in respect of works, schools, and other public buildings where the conversions are made either voluntarily or under the clauses of the Factory and Workshops Acts.

Whenever any sewerage operations are in hand, the Borough Surveyor issues a circular to all abutting owners calling attention to the necessity for the house drainage to proceed simultaneously or immediately after the sewers are laid. Junctions and other provisions are made for connections. Sketches are made showing positions of old drains, goits, and streams. new and old junctions left in, side connections, house drains, gas and water pipes, etc., with a view to such information being plotted on plans, so as to constitute a series of sewerage and house drainage maps, which must hereafter be of great value. The positions of the old drains met with and junctions left in, whilst the Main Trunk Sewers are being laid, are plotted upon the contract drawings, under which the work is constructed, at the completion of such work.

Extract from Minutes, December 19th, 1901.

Side Connections.

"Resolved—That in future a fixed charge of £2 be made in all cases for laying drains from the street line to the main sewer and connecting the same therewith."

The following abstract, a copy of the printed heading on each page of the Out-door Inspector's Note-book, indicates the scope of the information kept respecting all drainage work.

"Premises

 Person executing work for for Mr.Owner.
 If Corporation, state whether own Day Workmen
 or per Contractor
 Date and No. of Order to Corporation (if any).....
 Date and No. of Approved Building Plans (if any).....
 Work commenced..... Completed
 Inspector's Name Day Book Folio.....
 Measurements and Particulars of Work executed, to
 Credit Mr.....Contractor, and Debit
 Mr.....Owner."

As before stated a sketch is also made of each job.

Excreta Disposal. — Since the opening of the Haslingden, Rawtenstall, and Bacup Outfall Sewage Works a proportion of the excreta pail contents has been emptied into the Main Sewers at specially prepared "Chutes," plenty of flushing water and disinfectants being used. This course, when the work is carried out at night under proper regulations, is, as a temporary expedient until each house has its own water-closet, a safer and more expeditious way of disposal compared with the dangers and difficulties of placing the matter upon upland farms or moorland, and probably causing pollution of some of the many private water supplies in the Borough.

Bye-Laws and Regulations.

Beside the observance of the drainage clauses of the Building Bye-Laws already in force, specially detailed Drainage Regulations have been supplied to builders and others.

An abstract specification is also provided for the guidance of persons engaged in laying out new streets and constructing sewers.

Abstracts of the above regulations, together with other sanitary suggestions, are also forwarded with the notices issued by the Sanitary Inspector with regard to defective drains, etc.

Under the regulations the Corporation does not prevent private contractors from entering the streets and making connections for owners (in fact, some hundreds of houses have been connected by private contractors up to the present date), but a formal application has to be made for permission to break up the roads, and payment made for restoration of the surface, and only skilled contractors and workmen are permitted to do the work.

JAS. JOHNSON, C.E.,

Borough Engineer.

Appendix A.

RAWTENSTALL MAIN SEWERAGE.

Statement showing lengths and positions of Main and
Subsidiary Sewers laid up to December 31st, 1903.

TRUNK SEWERS.

	No. of Contract	Position	Lengths			When Completed
			Miles	Fur.	Yds.	
Constructed by the Joint Sewer Committee	1	Rawtenstall and Bacup Joint Outfall Sewer from Queen's Corner to Outfall Works, Ewood Bridge	1	...	5 ... 119	... 1895
	2	Rawtenstall and Bacup Joint Outfall Sewer from Queen's Corner to Borough boundary at "Thrutch"	2	...	0 ... 22	... 1897
	3	Sewer from Queen's Corner through "The Fold" along Burnley Road to Lord Street, Crawshawbooth	1	...	5 ... 120	... 1896
	4	Sewer from "The Square," Waterfoot, to Albert Works, Whitewell- Bottom	1	...	4 ... 88	... 1897
	5	Sewer from Albert Works, Whitewell-Bottom. to Graver Weir Mill, Culvert	1	...	2 ... 116	... 1898
	6	Sewer in Burnley Road from Lord Street, Crawshawbooth, to Oak Hill, Loveclough	1	...	4 ... 0	... 1900

Trunk Sewers—continued.

N ^o . of Contract	Position	Lengths			When Completed
		Miles	Fur.	Yds.	
Sewers	in Haslingden New Road from "Queen's Corner" to top side of "Reformers' Chapel," also Captain Fold and Cow Lane	0	...	1 ... 55	1897 and 1898
Laid by means of direct labour	{ Sewers in Church Street and Goodshaw Lane..	0	...	2 ... 160	1900
7a	Sewer in Newchurch Road from "Ram Inn" to Waingate Road	0	...	1 ... 84	1900
7b	Sewer in Dobbin Lane Cloughfold	0	...	2 ... 42	1900
7b	Sewer in Newchurch Road from opposite "Red Lion" to Baptist Chapel	0	...	0 ... 63	1900
7c	Sewer in Boothfold Road..	0	...	1 ... 134	1900
7c	Sewer in River from Burn- ley Road, opposite Thornfield Road to Thornfield Bridge, and along river to Booth- fold Bridge	0	...	1 ... 49	1900
Laid by means of direct labour	{ Haslingden Old Road, from "Bishop Blaize" to "The Plan"	0	...	4 ... 115	1900
	{ Newchurch Road, Church Street, and Turnpike, Newchurch	0	...	3 ... 80	1900

Trunk Sewers—continued.

	No. of Contract	Position	Lengths			When Completed
			Miles	Fur.	Yds.	
Laid by means of direct labour.		Sewer in Newchurch Road from Waingate Road to "Red Lion," Higher Cloughfold	0	...	4 ... 0 ...	1901
		Sewer in Haslingden New Road from Cow Lane to "Egypt Mount"	0	...	4 ... 130 ...	1901
		Sewer from Joint Outfall Sewer, near "New Hall Hey Mill," through fields past Jingle Holmes, to Back Egypt Terrace	0	...	2 ... 74 ...	1901
		Sewer from Lord Street, Crawshawbooth, along Back Lord Street, Corporation St., and Stoneholme Rd., thro' fields to Goodshaw Fold	1	...	0 ... 89 ...	1901
		Sewer in Woodlea Road from opposite Back Street No. 1 to E side of River bridge	0	...	0 ... 43 ...	1903
Total			14	...	4 ... 43	

SUBSIDIARY SEWERS.

Position	Miles	Fur.	Yds.	When Completed
†Sewer in Bank Street	0	...	2 ... 33	1899
*†Sewer in Lord Street (Bank Street to Bacup Road)	0	...	0 ... 180	1889
*†Sewer in Hill Street and Poplar Street	0	...	0 ... 163	1899
*†Sewer in Post Office Street ...	0	...	0 ... 26	1889
*†Sewer in Major Street	0	...	0 ... 126	1889
*†Sewer in Minor Street	0	...	0 ... 20	1889
*†Sewer in Townsend Street ...	0	...	0 ... 130	1890
*†Sewer in King St., Waterfoot	0	...	0 ... 50	1890
†Sewer in Warth Road	0	...	1 ... 130	1890
*†Sewer in Grange Road	0	...	0 ... 177	1891
*†Sewer in James Street	0	...	0 ... 41	1894
*†Sewer in Haslam Street	0	...	0 ... 72	1894
*†Sewer in Richard Street	0	...	0 ... 70	1894
*†Sewer in Albert Street, Rawtenstall	0	...	0 ... 74	1896
Cow Lane (Captain Fold)	0	...	1 ... 0	1897
Sewer in Victoria Parade	0	...	0 ... 50	1897
Sewer in Markross Street	0	...	0 ... 56	1897
Sewer in Holt Mill Road	0	...	0 ... 50	1898
Sewer in Miller Barn Lane, from top of Townsend Street	0	...	0 ... 33	1898
Sewer in Lord Street (from The Fold to Back Bank Street)..	0	...	0 ... 45	1898
Sewer in Dean Lane	0	...	4 ... 74	1898
Sewer in Pinch Clough Road...	0	...	0 ... 30	1898
Sewer in Water Fold	0	...	0 ... 30	1898
Sewer in Miller Barn Lane, (from Bacup Road to George's Row)	0	...	0 ... 150	1898

Subsidiary Sewers—continued.

Position	Miles	Fur.	Yds.	When Completed
*Sewer in Pilling Street	0	...	0 ... 66	1899
*Sewer in Mill Row	0	...	0 ... 64	1899
Sewer in Kay Street	0	...	0 ... 208	1899
*†Sewer in Lord Street West.....	0	...	0 ... 70	1899
*Sewer in Buller Street (Kay Street, to Cricket Field) ...	0	...	0 ... 28	1899
*Sewer in Back Bank Street (Lord Street, to passage) ...	0	...	0 ... 72	1899
*Sewer in Back Bank Street (Kay Street, to Lord Street)	0	...	0 ... 45	1899
*Sewer in Hargreaves Street ...	0	...	0 ... 25	1899
*Sewer in Hargreaves Street E.	0	...	0 ... 22	1899
Sewer in Lord Street, Crawshawbooth	0	...	0 ... 126	1899
Sewer in Forest Bank Road...	0	...	1 ... 3	1899
Sewer in Adelaide Street and Bonfire Hill Road	0	...	2 ... 27	1899
Sewer in Turton Hollow Road.	0	...	0 ... 33	1899
Sewer in Woodlea Road	0	...	0 ... 28	1899
Sewer in Kenyon Street	0	...	0 ... 70	1899
Sewer in Back Lane (from Bank Street to Back Bank Street East)	0	...	0 ... 27	1899
Sewer in Albert Street and Fountain (W.B.)	0	...	0 ... 130	1899
*Sewer in Buller Street, Lord Street, to Kay Street	0	...	0 ... 76	1899

Subsidiary Sewers—continued.

	Position	Miles	Fur.	Yds.	When Completed
Contract No. 7a.	Sewer in Daisy Hill	0	...	0 ... 148	... 1900
	Sewer in Mill Gate Road..	0	...	0 ... 138	... 1900
	Sewer in Back Lane, Back Bank Street, and Back Ormerod Street	0	...	0 ... 150	... 1900
	Sewer in Hall Street	0	...	0 ... 85	... 1900
	Sewer in Hurst Lane	0	...	0 ... 18	... 1900
	Sewer in Holmes Street and Green Street	0	...	0 ... 64	... 1900
Contract No. 7c.	Sewer in Gaghills Road ...	0	...	0 ... 121	... 1900
	Sewer in Thornfield Road..	0	...	1 ... 7	... 1900
	Sewer in Todd Carr Road, Bridge Street, and Gresham Street	0	...	1 ... 53	... 1900
	Sewer in Back Booth Road, behind Thistle Mount....	0	...	0 ... 91	... 1900
	Sewer in Back Brooklands	0	...	0 ... 42	... 1900
	Sewer in Whittle Street, Back Whittle Street, and Greenfield Street	0	...	1 ... 30	... 1900
	Sewer in Back Street, Newchurch	0	...	0 ... 150	... 1901
	Sewer in Old Street	0	...	1 ... 45	... 1901
Contract No. 7a.	Sewers in Union Street, Mission St., Back Union Street, and Hurst Lane...	0	...	1 ... 62	... 1901
	Sewer in Waingate Road...	0	...	0 ... 81	... 1901
	Sewer in Bridleway	0	...	0 ... 212	... 1901
	Sewer in New Road, Newchurch	0	...	0 ... 118	... 1901
	Sewer in Back Ashworth Road, Ashworth Road, Bob Lane, and Edgeside Road	0	...	2 ... 200	... 1901

Subsidiary Sewers—continued.

Position	Miles	Fur.	Yds.	When Completed
Barley Holme Road	0	...	0 ...130	... 1901
Sewers laid in Back and Side Streets up to Mar., 1900, say	2	...	0 ... 0	... 1900
*Back Worswick Crescent and Back Raby Street, etc.	0	...	1 ... 82	... 1900
*Back Yarraville Street, and Back Fallbarn Crescent	0	...	0 ... 82	... 1900
(Not coupled to Main Sewer).				
*Back Alexandra Street	0	...	0 ...145	... 1901
*Back Fern Lea Street East	0	...	0 ... 44	... 1901
*Back Fern Lea Street West	0	...	0 ... 58	... 1901
*Back Clough Street	0	...	0 ... 37	... 1901
*Binns Street	0	...	0 ... 34	... 1901
*Back Church Street, Craw'booth	0	...	0 ... 67	... 1900
*Back East Street, N.	0	...	0 ... 48	... 1900
*Back Prospect Road, S.	0	...	0 ... 48	... 1900
*Prospect Road	0	...	0 ... 30	... 1900
*Back Burnley Road, W.	0	...	0 ... 91	... 1900
*Back Elm Street, S.	0	...	0 ... 61	... 1900
*Franklin Road and Back Newchurch Road	0	...	0 ... 80	... 1900
*Back Burnley Road, "Hollin"...	0	...	0 ... 64 77	} 1900
*Birtwistle Street	0	...	0 ...113		... 1901
*Back Burnley Road				
*Back Birtwistle Street				
*Rosedale Street and Back Rosedale Street	0	...	0 ... 84	... 1901
*Back Brockclough Road	0	...	0 ... 35	... 1901
Back Rings Row	0	...	0 ...193	... 1902
Back Thorn Hill	0	...	0 ... 68	... 1902
Back Church Street, Newchurch	0	...	0 ... 77	... 1902

Subsidiary Sewers—continued.

Position	Miles	Fur.	Yds.	When Completed
Back Burnley Road, Crawshawbooth (Back Union Buildings) }	0 ... 0 ... 60 ...			1902
Back Burnley Road, Crawshawbooth (Back Ivy Mount) }	0 ... 0 ... 80 ...			1902
Back Bank Street, and Grange Crescent	0 ... 0 ... 53 ...			1902
Street off Turnpike, at West side of Mr. Lodge's house ...	0 ... 0 ... 34 ...			1902
Back Newchurch Road, off Hurst Lane	0 ... 0 ... 20 ...			1902
Back Newchurch Road, behind "Old House at Home"	0 ... 0 ... 25 ...			1902
Back Old Street, Newchurch ...	0 ... 0 ... 68 ...			1902
Back Sagar Holme Terrace ...	0 ... 0 ... 50 ...			1902
Law Street, Newchurch	0 ... 0 ... 45 ...			1902
Back Bridleway	0 ... 0 ... 44 ...			1902
Croft Court, off Co-operation St.	0 ... 0 ... 30 ...			1902
Back Schofield Road	0 ... 1 ... 6 ...			1903
Back Street No. 6 off Schofield Road	0 ... 0 ... 22 ...			1903
Back Street No. 1 off Taylor Street	0 ... 0 ... 32 ...			1903
Back Street No. 2 off Taylor Street	0 ... 0 ... 73 ...			1903
Back Street No. 4 off Taylor Street	0 ... 0 ... 79 ...			1903

Subsidiary Sewers—continued.

Position	Miles	Fur.	Yds.	When Completed
Back School Street, Crawshaw-booth	0	...	0 ... 32	... 1903
Back Burnley Road, Crawshaw-booth	0	...	0 ... 130	... 1903
Total	8	...	5 ... 116	

Summary.

Main Sewers	14m.	4f.	43yds.
Subsidiary and Private Street Sewers	8m.	5ft.	116yds.
Total	23m.	1f.	159yds.

Appendix C.

RAWTENSTALL MAIN SEWERAGE.

Statement showing lengths and positions of Sewers still required to be laid to drain existing houses.

Position.	Length.		
	Miles	Fur.	Yds.
Low Level Sewer from Goodshaw Fold to Loveclough	0	4	0
Bury Road	0	6	0
Fall Barn Road	0	4	0
Hill End, Cloughfold	0	2	0
Holme Road, Townsend Fold	0	4	0
Ewood Bridge	0	1	7
Cowpe Road	1	0	0
Wales Road	0	2	0
Edgeside Road	1	0	87
Shawclough Road	0	1	0
Townsend Fold to Goods Station, through Newhallhey Mill Yard ...	0	4	30
Total	4	4	124

There will also be required, in addition to above Mains, a few miles of Subsidiary or Private Street Sewers.

Appendix D.
LIST OF STORM OVERFLOWS.

No	ROAD	SITUATION.	Size of Overflow.	
1	In Footpath..	between Townsendfold and Newhallhey Mills	3	ft. 0 in. barrel Sewer
2	Bacup Road..	opposite Buller Street, through Markross Street. . .	2	" 6 "
3	Bacup Road..	opposite "Prince Albert Inn," Cloughfold	2	" 6 "
4	Bacup Road..	opposite Highfield Road, Hareholme.....	2	" 6 "
5	Bacup Road..	opposite "Arcade," Waterfoot.....	2	" 0 " pipe sewer
6	Bank Street ..	opposite Holly Mount School.....	1	" 6 "
7	The Fold ...	near "Wheat Sheaf" Inn	1	" 6 "
8	Burnley Road..	Rawtenstall, opposite Prospect Road	1	" 3 "
9	Burnley Road..	Rawtenstall, opposite Laund Street.....	1	" 3 "
10	Burnley Road..	Crawshawbooth, "Rushbed Bridge"	1	" 3 "
11	Burnley Road..	Crawshawbooth, "Rakefoot Bridge"	1	" 3 "
12	Burnley Road..	Waterfoot, opposite Booth Street	1	" 3 "
13	Burnley Road .	Waterfoot, opposite Back Booth Road.....	1	" 3 "
14	Burnley Road...	Scout Bottom, opposite Shawclough Road....	1	" 6 "
15	Burnley Road..	Whitewell Bottom, opposite Hightown Road.....	1	" 3 "
16	Burnley Road...	Lumb, opposite Morning Sun Terrace.....	1	" 6 "
17	Burnley Road...	Water, opposite "Townley Arms " Hotel.....	1	" 6 "
18	In Footpath ..	between Kippax Mill and Goodshaw Fold.....	1	" 0 "
19	Booth Road.....	near Boothfold Bridge C. C.....	1	" 0 "

*Appendix E.***BOROUGH OF RAWTENSTALL.**

PLANS OF BUILDINGS, ETC., APPROVED DURING THE YEARS
1892 TO 1903, IN THE BOROUGH.

Surveyor's Office,

March, 1904.

Years	Houses	Manufactories and Workshops	Places of Worship	Schools	Lock-up Shops and Offices	Clubs and Hotels	Other Buildings	Alterations and Additions	Streets	Totals
1892	108	4	...	5	...	...	12	...	...	129
1893	73	1	...	2	...	...	10	...	...	86
1894	79	5	...	4	...	...	8	...	...	96
1895	71	4	...	1	...	...	6	...	...	82
1896	151	11	...	3	...	...	7	...	...	172
1897	163	9	...	1	31	...	47	...	...	251
1898	103	4	...	Theatre	14	...	34	...	...	156
1899	83	3	...	...	1	...	69	...	...	156
1900	90	...	...	1	...	...	39	...	...	130
1901	31	9	1	1	...	2	11	26	4	85
1902	30	6	...	1	...	2	20	35	1	95
1903	26	6	1	...	...	1	36	43	6	119

MAIN ROADS.

STATEMENT SHEWING AREAS OF PAVING, MACADAM, Etc., MARCH 1904.

Name of Road.	PAVING.		GRANITE MACADAM.		LOCAL M'CADAM.	FOOT- WAYS.	Total Length of Road.	Aver- age Width of Road.	Total Area of Roads
	FULL WIDTH. Area in Sup. Yds.	ONE SIDE, Area in Sup. Yds.	FULL WIDTH. Area in Sup. Yds.	ONE SIDE Area in Sup. Yds.	ALL FULL WIDTH. Area in Sup. Yds.	Area in Sup. Yds.	Lin. Yds.		
Bacup Road...	*16319	*11795	.....	6341	....	10131	3520	38	44587
Burnley Road (No 1)	*12600	*16299	*18222	12688	....	17791	5820	40	77600
Burnley Road (No 2)	12477	4067	18936	4066	16200	13618	6503	32	69365
Bury Road.....	*2154	*1398	25931	686	....	10437	2833	43	40606
Boothfold Road ...	981	.....	.....	.....	5029	1987	727	33	7997
Ewood Bridge Road..	...	.....	5270	.....	.....	1700	510	41	6970
Haslingden New Rd..	*1481	*712	*17457	452	.....	4774	2017	37	24876
Haslingden Old Road	..	.....	.. ...	.....	17300	5613	2083	33	22913
Newchurch Road ....	...	.....	2750	.....	23670	7053	3043	33	33473
	46012	34271	88566	24233	62199	73104	27056	...	328387

* Including Tramway Paving.

NOTE.—Total area of Granite Paving on Tramways, 19,890 Sup. Yards.

SECONDARY ROADS.

STATEMENT SHEWING AREAS OF PAVING, MACADAM, Etc., MARCH, 1904.

Name of Road.	PAVING.		GRANITE MACADAM		LOCAL M'CADAM	FOOT- WAYS.	Total Length of Road.	Aver- age Width of Road	Total Area of Roads
	FULL WIDTH. Area in Sup. Yards	ONE SIDE. Area in Sup. Yards	FULL WIDTH. Area in Sup. Yards	ONE SIDE. Area in Sup. Yards	ALL FULL WIDTH. Area in Sup. Yards	Area in Sup. Yards	Lin. Yards		
Edgeside Road....	1400	.....		.....	14476		2268	7	15876
Cowpe Road ...	8767	.....	.....	.....	.....	105	1266	7	8862
Goodshaw Lane.....	.. ..	.....	.....	.. ...	14077	1085	2166	7	15162
	10167	.....	.....	.....	28553	2135	5700		39900

LIST AND LENGTHS OF PUBLIC HIGHWAYS REPAIRABLE BY THE CORPORATION.

NAME.	FROM	TO	LENGTH.
MAIN ROADS :—			
Bacup Road	... Queen's Arms Hotel	.. Borough Boundry	... Miles Fur. Yds. 2 0 0
Boothfold Road	... Burnley Road, Waterfoot	... Ditto	... 0 3 67
Burnley Road	... Queen's Arm's Hotel	... Ditto	... 3 2 100 ⁶³
<i>(Including Bank Street, King Street, via. Crawshawbooth.)</i>			
Burnley Road (via Water)	Bacup Road	... Ditto	... 3 5 123
Bury Road	... Queen's Arms Hotel	... Ditto	... 1 4 193
Ewood Bridge Road	... Ramsbottom Boundry	... Haslingden Boundry	... 0 2 70
Haslingden New Road	... Queen's Arms Hotel	... Borough Boundry	... 1 1 37
Haslingden Old Road	... Burnley Road, Rawtenstall	... Ditto	... 1 1 103
Newchurch Old Road	... Ditto	... Burnley Road, Waterfoot	... 1 5 183
<i>(Including Springside, Church Street and Turnpike.)</i>			
Total	...	...	15 2 216

List and Lengths of Public Highways Repairable by the Corporation.—Continued.

NAME.	FROM	TO	LENGTH.
SECONDARY ROADS;—			
Edgeside Road	...Piper Bank ...	...Lumb Mill ...	Miles Fur. Yds. 1 2 68
<i>(Including Lumb Lane and Pinch Clough Road.)</i>			
Cowpe Road	...(part) Bacup Road, Wat'foot ..	Cowpe Mill ...	0 5 166
Goodshaw Lane	Burnley Road, Cra'shawbooth ..	Burnley Road, L'clough	1 1 186
Total			3 1 200

NAME.	LOCALITY.	FROM	TO	LENGTH
ORDINARY ROADS:—				
Albert Street	...Rawtenstall	...Ormerod Street,	...Unitarian Chapel Wall	76 ² / ₃
Annie Street	... Ditto	...Lord Street...	... B'd'y of Alder Grange Estate	198 ² / ₃
Back Lane	... Ditto	...The Fold ...	...Newchurch Old Road	193 ¹ / ₃
Barley Holme Road	...Crawsh'booth...	Burnley Road	...Stoneholme Road	140

List and Lengths of Public Highways Repairable by the Corporation.—CONTINUED.

NAME.	LOCALITY.	FROM	TO	LENGTH.
ORDINARY Roads.—Continued.				
Back Street ...	...Newchurch	...Turnpike	...Church Street	... 133⅓
Back Ormerod Street ..	Rawtenstall	.. Back Lane	... House No. 22	... 40
Bridleway ...	...Lolly Mill	...Burnley Road	...Newchurch Old Road	... 366⅔
Bright Street ...	...Rawtenstall	...Barlow Street	...Hall Street	... 28⅓
Barlow Street...	... Ditto	.. Bank Street...	...The Fold	... 73⅓
Back Street ...	.. Ditto	...Buller Street	...Annie Street	... 48
Back Bank Street	... Ditto	...Lord Street	...Kay Street	... 41
Buller Street ...	... Ditto	... Ditto	...B'd'y of Alder, Grange Estate	85⅔
Back Street, No. 2 ...	Ditto	.. Buller Street	...Back Street, No. 1	... 27
Back Street, No. 2 ...	Ditto	...Kay Street	...Back Street, No. 3	... 51⅓
Back Street ...	Ditto	...Lord Street West	...Back Bank Street	... 16
Back Kay Street	... Ditto	...North Street	...Lord Street East	... 33
Crow Woods Road ...	Horncliffe	...Bury Road	...Ewood Bridge Road	... 490
Clough Bridge	...Cloughfold	...Bacup Road	...Hill End Road	... 50

List and Lengths of Public Highways Repairable by the Corporation.—CONTINUED.

NAME.	LOCALITY.	FROM	TO	LENGTH.
ORDINARY ROADS.—Continued.				
Co-operation Street	...Crawsh'booth...	Burnley Road	...Stoneholme Road	90
Commercial Street	... Ditto	... Ditto	...Loveclough Works	266 ² / ₃
Church Lane	...The Heys	... Ditto	...Newchurch Road	400
Dean Lane	...Water ...	.. Burnley Road	.. Spring Mill Dean	981
Dobbin Lane	...Cloughfold	...Bacup Road ..	...Newchurch Road	450
Edge Road	... Ditto	...Newchurch Road	...Edge Cotes	566 ² / ₃
Goodshaw Fold Road	Crawsh'booth...	Burnley Rd., C'booth	River Bridge, Goodshaw Fold	106 ² / ₃
Holt Mill Road	...Warth...	...Bacup Road...	...End of Paving...	50
Heys Street	...Cloughfold	... Ditto	... Ditto	66 ² / ₃
Hill Street	...Crawsh'booth...	Poplar Street	... Ditto	110
Hurst Lane	...Rawtenstall	...Newchurch Road	...Cote Doles	1033 ¹ / ₃
Hill End Road	...Cloughfold	...Clough Bridge	...Near Hill End Farm	250
Haslam Street	...Rawtenstall	...Lord Street	...James Street	61
Hargreaves St. East...	Ditto	...Lord Street West	...Hargreaves Street	24

List and Lengths of Public Highways Repairable by the Corporation.—CONTINUED.

NAME.	LOCALITY.	FROM	TO	LENGTH.
ORDINARY ROADS.—Continued.				
Hargreaves Street	...Rawtenstall	...James Street...	...Hargreaves Street East	... 40 ⁵ / ₆
James Street ...	... Ditto	...Bacup Road...	...Lord Street West	... 77
King Street ...	...Waterfoot	... Ditto ...	...Warth Road ...	... 40
Kenyon Street	...Rawtenstall	...Burnley Road	...Corn Mill	... 46 ² / ₃
Kay Street ...	... Ditto	...Bacup Road...	...Bank Street ...	... 221
Back Kay Street	... Ditto	...North Street...	...Lord Street East	... 33
Lomas Lane...	... Ditto	.. Bury Road ...	...Balladen	... 1200
Lock Gate ...	...Pike Law	...Haslingd'n New Rd...	Borough Boundary	... 140
Lord Street ...	.. Rawtenstall	...The Fold ...	...Bacup Road ...	... 266 ² / ₃
Lord Street ...	.. Crawsh'booth...	Burnley Road	...End of Paving...	... 43 ¹ / ₃
Lumb Lane ...	...Shawclough	...Shawclough Road	...Lower Hollin Farm	... 200
Lord Street West	...Rawtenstall	...Lord Street ...	...Boundary Wall of Longholme Wesleyan School	... 79
Lord Street East	... Ditto	... Ditto ...	...Kay Street ...	... 41 ¹ / ₃

List and Lengths of Public Highways Repairable by the Corporation.—CONTINUED.

NAME.	LOCALITY.	FROM	TO	LENGTH.
ORDINARY ROADS.—Continued.				
Millar Barn Lane	...Waterfoot	...Bacup Road ..	...Boothfold Road	406 ² / ₃
Markross Street	...Rawtenstall	... Ditto	... River Irwell	76 ² / ₃
Millgate Road	... Ditto	...Bank Street ...	...Newchurch Road	186 ² / ₃
Mill Row	.. Reedsholme	...Burnley Road	...No. 20 Mill Row	62
New Mill Road	...Rawtenstall	... Ditto	.. Corn Mill	26 ² / ₃
North Street ..	... Ditto	...Lord Street ...	...B'd'y of Alder Grange Estate...	96 ¹ / ₃
Ormerod Street	... Ditto	... Ditto	... Bank Street	163 ¹ / ₃
Old Street ...	...Newchurch	... Turnpike	...Church Street	250
Post Office Street	...Crawsh'booth...	...Burnley Road	...Major Street	30
Poplar Street	... Ditto	... Ditto	...Hill Street	43 ¹ / ₃
Richard Street	.. Rawtenstall	.. Lord Street ...	...James Street	59 ¹ / ₆
Stoneholme Road	...Crawsh'booth...	Corporation Street	...End of Paving opp. North Side of Office Door, Stoneholme Mill	463
Shawclough Street	...Roebuck	...Burnley Road	...End of Paving...	80

List and Lengths of Public Highways Repairable by the Corporation.—Continued.

NAME.	LOCALITY.	FROM	TO	LENGTH.
ORDINARY ROADS. Continued.				
The Fold ...	.. Rawtenstall	...Bank Street ..	.. Tup Bridge ...	380
Townsend Street	.. Waterfoot	...Bacup Road...	.. Millar Barn Lane ...	1200
Union Street	.. Rawtenstall	.. Newchurch Old Rd...	Hurst Lane ...	125
Warth Old Road	.. Waterfoot	.. Bacup Road...	...Duke Street ..	317
Water Street	...Newhallhey	.. Old Subway ..	...Bury Road ...	200
Victoria Parade	.. Waterfoot	...Bacup Road...	.. River Irwell ...	50 ¹ / ₃
Total Length of Ordinary Roads—7 miles, 1 furlong, 2 yards.				

SUMMARY.

	Miles Fur. Yards.	
Main Roads	15 2 216
Secondary Roads	3 1 200
Ordinary Roads	7 1 2
Total	25 5 198

LIST OF CULVERTS UNDER MAIN ROADS OVER 4 FEET WIDE.

REPAIRABLE BY COUNTY COUNCIL.

Name of Road.	No.	Position of Culvert.	Dimensions of Culvert.	Depth b'low Road to Top of Culvert.	Remarks.
Bank Street.....	1	From Woodcock's Draper's Shop to	5ft 0in x 5ft 0in.	about 1ft.	Tail Goit from Higher Mill, Fair C'diti'n
Burnley Road	2	Whittaker's Butcher's Shop.....	6ft 0in x 2ft 6in.	about 4ft.	Head Goit to Old Corn Mill, Fair Con.
Rawtenstall.....	3	Opposite Prospect Road	4ft 0in x 4ft 0in.	about 5ft.	Tail Goit from ditto. Fair Con.
" "	4	15 ft. North of Constablee Bridge C.C.	4ft 0in x 2ft 0in.	about 2ft.	Head Goit to Holmes Mill.
" "	5	Oppo. g'te'ay to Holmes Mill, R'shol'e	11ft 0in x 5ft 6in.	about 8ft.	Stream from Folly Clough. Good Con.
" "	6	Opposite Walsh Street, Reedsholme..}	5ft 0in x 4ft 6in.	about 7ft.	
" "	7	Opposite Adelaide Street, Cra'sha' booth	5ft 0in x 3ft 0in.	abt 4ft 6in	Tail Goit from Old Corn Mill
H'slin'd'n New Rd..	8	Oppo. end of boundry wall ' Brynbella,	8ft 0in x 5ft 0in.	about 5ft.	Head Goit to Higher Mill, Fair Con.
H'slin'd'n Old Rd..	9	Opposite Bishop Blaize public house....	6ft 6in x 6ft 6in.	about 6ft.	} Head Goits to New Hall Hey Mills. These are said to join under Main Road.
Newchurch Road...	10	Opposite Mill Gate Road.....	12ft 0in x 7ft 6in.	about 9ft.	
Bury Road	11	Ab'ut 60 ft South of L & Y Level Cros'ing	6ft 0in x 6ft 0in.		
" "	12	Ab'ut 75 ft " " " "	4ft 0in x 4ft 0in.	about 16ft.	Stream from Plantation, Lomas Lane.
" "	13	Ab't 120 ft " " " "	4ft 6in x 4ft 0in.	He'd Goit to Res'r'vir at T'us'nd F'ld M.	
" "	14	Ab't 270 ft " " " " of New-hall-hey C.C. B	about 16ft.	Balladen Brook, Wider on both sides of	
" "	15	Ab'ut 60 ft North of Lomas Lane.....	4ft 6in x 4ft 0in.	Dis-used.	[Road, Very Good Con.
" "	16	Ab'ut 80 ft South of Lower Clew's Ro'd..	4ft cir'l'r cul. v'd'r rd	Head Goit to Holt Mill Saw Mills.	
" "	17	Ab't 140 ft " " " "	9ft 0in x 3ft 6in.	Tail Goit from " "	
Bacup Road.....	18	50 ft East of Hareholme Bridge C.C....	7ft 0in x 5ft 0in.		
" "	19	Opposite Holt Mill Road.....	9ft 0in x 4ft 0in.	about 5ft.	
" "	20	60 ft East of Lonsdale Bridge C.C.....	6ft 0in x 6ft 0in.	about 5ft.	Head Goit to Baltic Mill. Fair Con.
Burnley Road	21	Opposite gates to 'Springfield House'...	6ft 0in x 4ft 6in.	about 7ft.	" " Forest Mill. Fair Con.
Waterfoot	22	Opposite Forst Mill, Water.....	7ft Barrel Arch.	about 6ft.	Whitewell Brook. Good Con.
" "	23	Oppo. g'te'ay to Graver Weir Mill, Wat'r	6ft 0in x 4ft 6in.	about 3ft.	Head Goit to Hollin Mill.
" "		100 ft North of Hollin Bridge C.C.....			

LIST OF CULVERTS UNDER MAIN ROADS LESS THAN FOUR FEET WIDE.

Name of Road.	No.	Position of Culvert.	Dimensions of Culvert.	Depth below Road to Top of Culvert.	Condition of Culvert.	Remarks.
Burnley Road, No. 1	1	Opposite "Hawthorne" Gates	2ft 6in x 2ft 6in.	about 17ft.	.....
Haslingden New Rd	2	Near Park Gates.....	3ft 0in. x 2ft 6in.	about 5ft.	.....
Haslingden Old Ro'd	3	Opposite No. 23.....	2ft 0in x 2ft 0in.	about 4ft.	.....
Burnley Road, No. 2	4	Just below Brockclough Road.....	3ft 0in x 4ft 0in.	3 feet.	Good	

LIST OF PUBLIC CONVENIENCES IN THE BOROUGH.

MARCH, 1904.

NAME OF ROAD.		POSITION.	NO. OF STALLS.
† 1.	Bury Road	(Iron) ... Newhallhey Bridge ...	2
a 2.	Burnley Road, Rawtenstall...	Near Ram s Head Hotel	3
† 3.	Ditto	(Iron) ... Near White Horse Hotel	3
a 4.	Ditto	(Iron) ... Nr. Assembly Rooms, C'sh'wb'th	3
a 5.	Ditto	(Iron) ... Nr. Holt's Arms Hotel, L'clough	3
a 6.	Bacup Road	(Iron) ... Nr. Queen's Arms Hotel, R'stall	3
a 7.	Ditto	... Near Cloughfold Station	3
a 8.	Ditto	(Iron) ... Near Waterfoot Bridge...	3
† 9.	Ditto	(Iron) ... Near Glen Inn, Thrutch	3
a 10.	Burnley Road, N'church	(Iron) Bottom of Turnpike, N'church...	2
† 11.	Ditto	(Iron) ... Near Hollin Bridge, Roebuck	2
† 12.	Ditto	(Iron) ... Near Sagar Holme Mills	2
† 13.	Ditto	(Iron) ... Near Towneley Arms, Lumb	2

Those marked thus † have no water supply.

Those marked thus *a* are supplied by the Joint Board with water.

LIST OF STREET WATERING POSTS.

MARCH, 1904.

Name of Road.	Position.
1. Haslingden New Rd.	...near Whitaker Park
2. „ „	...under Workhouse
3. Bury Road.....	Wood Top
4 „	Townsend Fold (private supply £1 per year)
5. „	Horncliffe
a6. Burnley Rd. (R'stall)....	Constablelee
7. „ „	...near Rush Bed Bridge
8. „ „	...Stoneholme Rd. (p'vate supply £1 1s. per yr)
9. „ „	...near Hawthorn House, Crawshawbooth
10. „ „	...Middlegate, Crawshawbooth
11. „ „	...opposite Broading Terrace, Loveclough
12. „ „	...Central Depot Yard, R'stall (Hydrant only)
13. Bacup Road.....	Near Queen's Arms Hotel
14. „	near Plantation Cottages
15. „	near Myrtle Grove Mill (private supply —per year.
16. „	Sandy Bank, Waterfoot
17. Burnley Rd (N'church)...	near "The Heyes" Newchurch.
a18. „ „	...Clarkeholme Depot
19. „ „	...near Scout Quarries (private supply 10s. per year.)
20. „ „	...near Whitewell Spinning Co's Mill
21. „ „	...near Dean Lane, Water
22. Newchurch Road.....	Church Street, Newchurch 41 yards W. of No. 2, Church Street, Newchurch

Those marked thus *a* are used by Health Committee.

NOTE.—The above are supplied by the Joint Board with water, except those otherwise stated.

LIST OF HIGHWAY STORE YARDS AND TIPS.

MARCH, 1904.

	Position	Owner of Land	Rental	When Lease Expires
a1	Queen's Meadow...	Corporation...	—	—
a2	Wood Top, Bury Road ...	Exors. of J. Rushton	£1 per year...	January, 1908
a3	Tup Meadow Depot	Corporation	—	—
a4	Constablelee	J. W. Mitchell	£5 per year	—
a5	Barley Holme Depot	Corporation	—	—
a6	Ring's Row, Crawshawbooth	A. W. Bailey	Health Comm. Tip...	—
a7	Stone Recess, Middlegate	Corporation ...	—	—
a8	Cawl Meadow, Cloughfold	J. Kenyon, Ltd.	£8 per year	Any time on notice
a9	Formby Holme Mill, Cloughfold	J. W. Mitchell	Free...	Ditto
a10	Near Marl Pits, Newchurch Road	J. Harvey	Free...	Ditto
a11	Hareholme Estate	In Chancery...	Free...	Ditto
a12	Sandy Bank, Waterfoot...	Edward Ashworth	30s. per year	Ditto

LIST OF HIGHWAY STORE YARDS AND TIPS

(CONTINUED).

	Position	Owner of Land	Rental	When Lease Expires
a13	The Market, Waterfoot ...	... Corporation...	...	—
a14	Clarkeholme Depot...	... Corporation...	...	—
a15	Near Isle of Man Mills, Water ...	... J. Pickup & Bros. ...	£5 per year...	... 12 months' notice
†16	Cowpe Tip ...	... Lloyd's Estate ...	Free...	... Any time on notice
†17	Edgeside Tip ...	... J. W. Ashworth ...	Health Comm. Tip...	—
‡18	Black Pish, Burnley Road, Waterfoot ...	... Corporation ...	...	—

a Used only for storing setts, flags, macadam, &c. ‡ Used for storage and tipping road debris as well.

† Used as a tip only.

